

FIG. 1

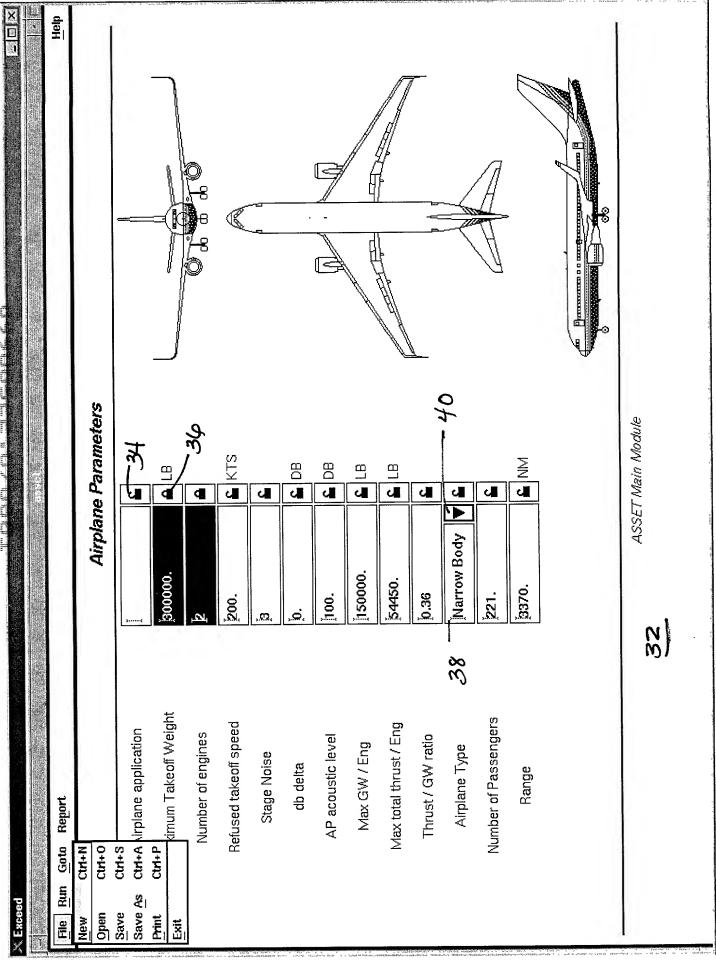
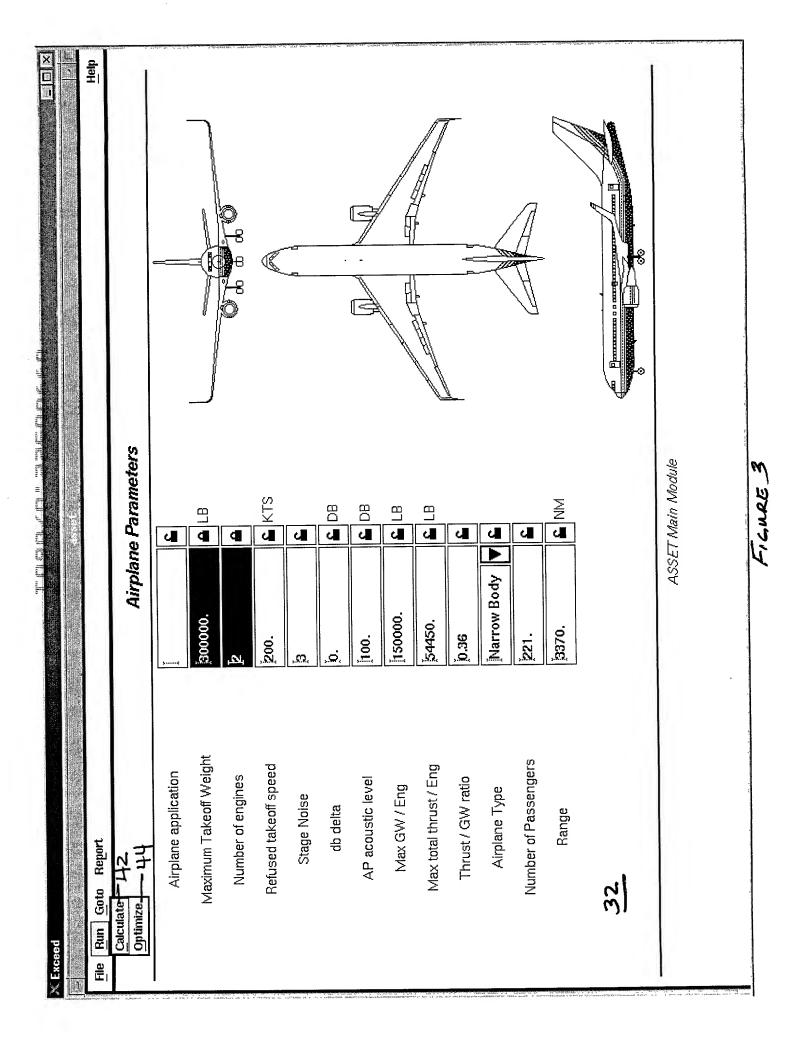
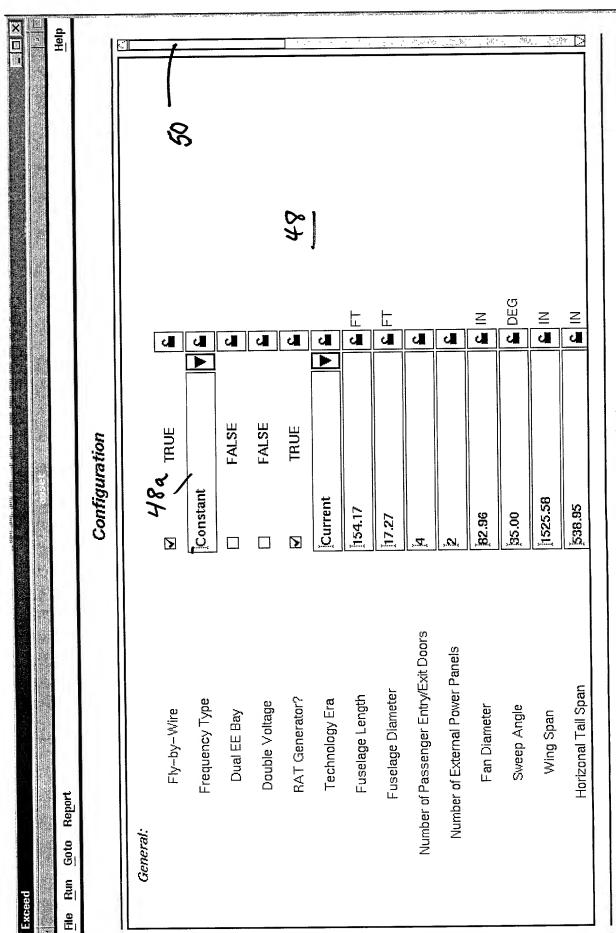


FIGURE 2



FISURE 4



ASSET EPGDS Method

FIGURE SA

Flaupe 5B

	AC Elec	AC Electrical Load Characterization	terization				
	Num	Number of Fans	9.0	녜			
	Recirc	Recirculation Fans	ž.0	u l			
	Number of E/E	E/E Cooling Vent Fans	2.0	u			
	Number of E/E	Number of E/E Cooling Supply Fans	2.0	녜	7		
	Num	lumber of TRUs	j3.0	u u	Y		
	Numb	Number of ACMPs	ž.0	⋴			
	Number of Wind	Number of Window/Windshield Heaters	, , , ,	녜			
	Number	Number of Lavatories	ў. ў.	₫			
Number of Wide Body Pumps	0.0	Number of	Number of Narrow Body Pumps	sdwn		ᄺ	
Number of Wide Body Boost Pumps	0.0	Number of Na	Number of Narrow Body Boost Pumps	t Pumps	je.0	₄	
Number of Wide Body Override Pumps	, 0.0	Number of Nan	Number of Narrow Body Override Pumps	de Pumps	Ĭ0.0	녜	
Number of Wide Body Jettison Pumps	0.0	Number of Nar	Number of Narrow Body Jettison Pumps	on Pumps	Ď.0	и∎	

× Exceed											11. The state of								H
File Run Goto Report																			Help
				AC	C Load Summary by Flight Phase	umu	nary	by Fli	yht P	hase									
		Passenger Lo	nger	Loac	ading			En	Engine Start	start -				i 	- Taxi Out	iom			
ATA Subsystems		(KVA)			(PF))	(KVA)		₍₎	(PF)			(KVA)			(PF)		<u>-</u>
21 Air Conditioning	Ŷ	Ĭ13.72	♦		Ď.82	♦	, ji3.72	72	⇔	Ď.82		4	, <u>F</u>	Ĭ11.32	4	\$	Ĭ1.00	녜	
22 Auto Flight	\$	jo.68	٥ الله		06'0	ं 4	, 0.68	89	٥ ال) 0.90		Ų.	, <u>.Q.,</u>	jo.68	u I	\$	06.0	4	
23 Communications	\	Ď.64	↓ 4		Ĭ1.00	♦	, 0.95	15	≎ ال ا	Ĭ1.00		u u	, Ω ,	2.42	u	\$)ı.00	녜	
24 Electrical Power	\$	j3.38	◊ ₄∎		Ď.95	⋄	.3.39	g,	≎ 4	j0.95		ų. u.∎	, .Ω. ,	j3.57	u	\$	ў. ў.	ull	
25 Equipment/Furnishings	¢	25.10	≎ 4		Ĭ1.00	♦	ž3.24	.24	≎ 4	Ĭ1.00		u∎	, .Ω. ,	38.93	↓	\$) 1.00	₄	
26 Fire Protection	Å V	Ď.20	♦		Ĭ1.00	↓	jo.20	0.	↓	Ĭ.00		u∎ l	, <u>.Q.,</u>	0.20 0.20	4	\$	j1.00	ul.	3 800 0800
27 Flight Control	\$, 0.07	↓		Ĭ1.00	♦	, 0.07	7	♦	ĭ. 00.		u I	, o ,	, 0.07	ᄺ	\$)1.00	네	
28 Fuel	Ş.	Ď.00	↓ 4		Ĭ1.00	ं 4∎	, 5.08	8	↓ 4	Ď.83		u u	, se ,	80.8	ᆁ	\$	0.83	네	· [] () ()
29 Hydraulic Power System	Ş	Ĭ19.28	◊		ŏ.75	◊		19.28	≎ 4	0.75		(J	<u>,</u>	19.28	ᆁ	◊	jo.75	u I	t in the second
30 Ice/Rain Protection	Å	4.43	⋄		Ĭ1.00	٥ ا	,55.29 ,55.29	5	≎ ₄	, <u>i.</u> 00.		(III	., .α. .∫	5.29	ᆁ	\$	Ĭ1.00	녜	C. 200.1
31 Instruments	\$	Ď.30	≎ 4		Ĭ1.00	≎ 4∎	.0.30	Q	≎ 4∎	 00.		ŭ∎]	<u>,.e.</u>	jo.30	ᆁ	\$	Ĭ1.00	u∎	-13 ₄₄₂ 2 * 1
32 Landing Gear	_ 2	0.12	4		Ĭ1.00	3	, jo 12	2	᠅	<u>)1.00</u>		u	L.C.	Ď.12	ચ	٥	Ĭ1.00	4	
Maximum Flight Phase Load	₩ 0	Ĭ116.88	4	\ \ \	KVA<> 0.	96'0 <u>,</u>		dd 🖥		ž.	,	٠		: 1 경기 경기	9°		, 4	a final and a second	$_{\wedge}$
	8				4	SSETL	EPGD	ASSET EPGDS Method	יס,			4	£.						
											•		1						

				AC		Sumi	nar	Load Summary by Flight Phase	ght	Pha	se				,			
		Passenger Loading		r Loa	rding			E	Engine Start	Sta	4				Taxi Out			
ATA Subsystems		(KVA)			(PF)			(KVA)			(PF)			(KVA)			(PF)	
32 Landing Gear	Ŷ	Ď.12	u	\$ (1.00	v ₄	,. ,	Ď.12	ú.	<u>></u>	00.1	u u	,. 	Ď.12	u l	<u>,</u> ,	00.1	ᄺ
33 Lights	Ŷ.	10.68	i.	IJ <u>⊶≕</u> ♦	1.00	u v	\$ \$	ja.71	ų.	<u>}</u>) 1.00	u	., #K#∢	9.32	u u	, <u>, , , , , , , , , , , , , , , , , , ,</u>	j1.00	u
34 Navigation	<u> </u>	0.89	₫	\$ \$	Ď.85	u u	۸ ۸	0.89	ů.	,. s=. .	Ď.85	녜	۸ ۸	0.94	u	۸ ۲	0.87	ᆁ
35 Oxygen	\$	00.00	u	\ \ \ \	1.00	u	\ \ \	, , , , , ,	u l	\ \ \ \	[1.00	4	<u></u> ♦	0.00	u	<u>}</u>	00.1	ᄺ
36 Pneumatics	\$, 00.0	d i	¢	1.00	ů	<u>۱</u>	0.23	Ú.	<u>ب</u> ۷	ji .00	u	ا ٽٽٽ ا۔ \	Ď.00 Ž	u	^ ^ V	ji.00	녜
38 Water/Waste	0	5.36	녜	\	Ž. Ž	u	Å V	ĭ.40	ů.	۰. 	Ď.83	u u	\$	1.40	u u	<u>۰</u>	Ď.83	ᆁ
46 Electronic Library	Ŷ	, 00.0	u u	\ \ \) 1.00	ù	\$	00.0	4	۸ ۷	, 00.00	d i	<u>۸</u>	00.0	녜	الــــــــــــــــــــــــــــــــــــ	Ĭ.00	녜
49 Airplane Auxiliary Power	¢	00.0	u.	\$	Ĭ.00	u l	\$	00.00	u I	¢	1.00	₄	الــــــــــــــــــــــــــــــــــــ	jo.00	₄	۸ ۸	Ĭ1.00	녜
52 Doors	0	, 00.0	u	\$	j1.00	녜	\ \ \	00.0	녜	۸ ۸	Ĭ1.00	u u	\	00.00	녜	,	ji.00	ᆁ
57 Folding Wing	\$).00 j	u	\$, 00.0	u	\) 00.00	4	♦	00.00	₄	<u>ا ا ا</u>	00.0 <u>°</u>	u u	\$	Ĭ.00	ᆁ
73 Engine Fuel Control	\	, 00.00	녜	0	Ĭ.00	ul ul	\	0.70 0.70	u u	¢	Ď.74	₄	٥	0.70	₄	^	0.74 0.74	८ ■
74 Ignition	Ş	, 00.00	녜	٨	Ĭ.00	₫	\$	jo.30	u u	\$	0.33	u	\$	00.00	u l	\$	1.00	u
se Load		, 116.88		Ŭ.	KVA<>	0.96		4	出		*			3	^E	*	2	**************************************

FIGURE 7B

				AC Loa	C Load Summary by Flight Phase	nary b) Filg	Σ Σ	nase						
		Tak	e-off 8	- Take-off & Climb -	1		-	Cruise	 - -			De	scent 6	Descent & Land	
ATA Subsystems		(KVA)		(PF)		(#1	(#VA)		J)	(PF)		(KVA)		(PF)	
32 Landing Gear	\	j0.12	♦	00. I <u></u>	↓	0.12		<> ■	Ĭ1.00		‡	0.23	↓ 4	Ĭ.00	ᆁ
33 Lights	Q	Ĭ10.97	٥ ط	, 1.00	٥ الع	. Ž.73		♦	Ĭ1.00	5	♦	Ĭ11.51	↓ 4	Ĭ.00	и∎
34 Navigation	<u> </u>	Ĭ.17	્ર	0.88	\$ 4	1.17		¢ د•	.0.88	S	◊	Ĭ1.17	↓	, 98.0 1	ᆁ
35 Oxygen	<u> </u>	Ď.00	¢ ط	, <u>r</u> .	↓	, , ,		♦	, <u>r</u> .		◊	j0.00	↓ 4	Ĭ1.00	₄
36 Pneumatics	<u> </u>	, 00.0	٥ سا	, 1.00	\$ 4	, , ,		\$	ĭ.00		♦	Ď.00	پ نا	Ĭ1.00	녜
38 Water/Waste	\	ў.94	ા	, , , , ,	\$ 4	¥ Ĭ1.14		٥ ا اا	0.83	5	ે વ્યા	Ĭ.12	٠ 4	0.94	₄
46 Electronic Library	Ŷ	, 0.00	◊	, 00.00	\$ 4	, 00.00		♦	j.00		♦	0.00 0.00	۵ ا	, 0.00	4
49 Airplane Auxiliary Power		, , , , ,	٥ 4	, 1.00	↓ 4	00.0 <u>č</u>		♦	Ĭ1.00		♦	Ď.00	\$ 4	j. 00	4 ■
52 Doors	\	, 0.00	٥ ا	. Ĭ1.00	≎ ₄	, , , , ,		¢ د	Ĭ1.00		\$ 4	0.00 0.00	\$ ا اا	Ĭ.00	u u
57 Folding Wing	<u> </u>	jo.00	٥ الع	00.1 <u>ř</u>	↓	, Ö.00		♦	j.00		♦	00.0j	\$ 4	Ĭ.00	u u
73 Engine Fuel Control	\$	j0.00	٥ اله	00.T <u>ř</u>	\$ 4	, , , , , ,		♦	Ĭ.00		♦	Ď.00	\$ 4	00.T	ᆁ
7.0 Lepition	ا إ	ي ۵۵	۷	, J	<u>ا</u>	no d			oo ii			oo d		Į, go	뎈
Maximum Flight Phase Load	⊿ ०	Ĭ116.88	u	KVA<	0.96		PF	_							

FISURE 72

ATA Subsystems (AVA)											ı
<u>}</u> 	AC Load Summary by Flight Phase	Summai	ry by Flig	tht Ph	ase						
(KVA)	off & Climb			Cruise				Des	sent .	- Descent & Land	
00.01 <>	(PF)		(KVA)		(PF)			(KVA)		(PF)	
	00.1 <u>j</u> <> 🗖		00.0	\$ •	اً نامو			oo.o.		00.T.	
73 Engine Fuel Cantral <> 0.00	00°1, ⇔	٥ ط	00.0	ં	Ĭ1.00	ᆁ	<u>,</u>	jo.00	♦	, 1.00	તા∎
74 Ignition <>> 0.00	\$ \tag{1.00}	♦	, 00.0	◊	ji.00	ᆁ	, <u>o,</u>	00.00	⋄	, 1.00	ᆁ
75 Air <>> <u>0.00</u>	00'Li <		00.0	♦	, 1.00	u I	<u>,©,</u> ◊	00.00	ં	, j.00	ᄺ
76 Engine Controls <> jo.00	\$ \$ \$ \$	¢ دا	00.0 <u>č</u>	٥ 4	ĭ.00	u u	, <u>se,</u>	00.00	↓) i.00	ᄺ
77 Engine Indicating <> 5.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	♦	ž0.02	⇔	00.1 <u>ř</u>	u I	, <u></u> (0.02	⊹	× ĭ.00	ᄺ
78 Exhaust <> j0.00	00.1 <u>°</u>	٥ ط	00.0	٥ ا نا	, 1.00	u	<u>،</u> ۷	0.00	u I	<> j1.00	ᄺ
79 Oil <> ii.00	\$ \$	♦	00.0	≬ ₄), 1.00	ᆁ	\$	0.00	ų. U.	\$1.00 ¢>	ᄺ
80 Starting <> 0.00	\$ \$ \$ \$ \$ \$	٥ ط	jo.00	○	j.00	u u	, ,,,,	00.00	u u	<> j1.00	ᄺ
Flight Phase Subtotals <> 101.63	96.0j. ⇔	ં	100.16	ે વ∎	j0.96	u u	<u>ب</u>	je5.71	u I	<> j0.93	ᄺ
Error/Growth Factor (15%) <> 15.24	96.0 <u>°</u>	٥ ا ي	Ĭ15.02	↓	0.96	4	¢	986	ů.	<> j0.93	ᄺ
Flight Phase Totals <> 116.88	96.0ĭ ⇔	¢ 4	Ĭ115.19	↓	jo.96	и∎	\ \ \	75.57	ů.	<> 0.93	ᆁ
		*									
Maximum Flight Phase Load <> 116.88	KVA<	96.0	₽PF								

FIGURE 7D

раа			H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Mi⊡ I	网里。
HIE Kun Gow Report		Essen	Essential AC Loads	S		
nØ	Quantity	Load per Unit	Jnit		Totals	ELITERY STATE
Number of Upper Recirculating Fans 2.0	(\$\displaystyle{\pi}\$)	Ĭ1.28	₽ KVA	Total Fan Load	ĭ15.38 ₽ KVA	and the second
Number of Lower Recirculating Fans 0.0	(e) (d)	Ĭ.98	KVA KVA			75 Ban 1947 S
Number of E/E Cooling Supply Fans 2.0	(% (#)	j3.20	₽ KVA			*************************************
Number of E/E Cooling Vent Fans 2.0	(§)	j3.20	₽ K∨A			P
Number of Hydraulic ACMP Pumps 2.0	<>®	ğ.41	₽ KVA	Total Pump Load	23.30 ₽ KVA	
Number of Fuel Boost Pumps 8.0	\$ 4	Ĭ1.75	¥۷۸ ¶ا			
Number of Fuel Override Pumps 50.0	\$ 3	4.66	₽ KVA			4 M C 25 C
				Passenger Load	Ĭ7.08 ₽ KVA	
Baseline Flight & Electronics, Ice & Rain	s, Ice & Rain	ğ.75	₽ KVA	Baseline Flight & Electronics Total Load	ĭ3.10 ⊆ KVA	.343
Baseline Flight & Electronics, Electronics	s, Electronics	ğ.35	₽ KVA		ļ	PLE S XXX
્રાંત કર્યા કર ત્રાંત વાત વાત કર્યા				Subtotal of Essential Loads	№ 88.8€	388478777477
				General Feeder Loss	ў.12 КVА	
				Total of Essential Loads	62.98	
288		ASSE	ASSET EPGDS Method	<i>d</i>		
	• Section of the section of the sect	en profession of the state of t			of a community of the second s	

FIGURE 9

Number of Main Landing Gear Wheels Number of APU Generators Number of Tanks Number of Tanks ASSET EPGDS Method	Help fion	
	DC Electrical Load Characteriza	ASSET EPONS Mathod

djeH		POLICIA	A3 00/03 William	<u> </u>						-îa}-"6;~"		., se		< 7 (V 3 M 2)		
					u	u	ᆁ	u u	4	ᄺ	੫	J.	ᄺ	ᄺ	ᄺ	
		Descent	& Land	(Amps)	Ĭ15.14	j13.60) (0.90	Ž.27	Ĭ18.04	0.54	Ĭ0.07	Ĭ.21	jo.80	Ĭ12.42	ğ 6. 70	
					\$	\	\$	\	\	\	<u></u>	\	\	<u></u>	\$	
					u	녜	녜	녜	녜	u	ull	ᄺ	녜	녜	녜	
			Cruise	(Amps)	Ĭ15.14	10.75	Ĭ.13	Ž.27	Ĭ18.0 4	ŏ.54	Ĭ0.0Ž	Ĭ.21	ĭ0.80	5.40	ğ6.70	
	Ì				<>	\$	\$	\$	\$	\$	0	\$	\$	<u></u>	\	
					ᆁ	u u	ᆁ	u	u I	ᆁ	ᄺ	ᄺ	ᆁ	ᆁ	ᆁ	
	يو	Take-Off	& Climb	(Amps)	Ĭ15.14	10.42	06.9 <u>ĕ</u>	Ž.27	Ĭ18.04	Ď.54	Ĭ0.0Ž	Ĭ.21) 0.80	Ĭ12.42	96.70	
	'nas				\$	\$	\$	\	0	\$	Ŷ	\$	\$	\$	\$	
	ht F				u u	녜	녜	ᆁ	녜	u	u	ᄺ	u	u	ᆁ	
	Load Summary by Flight Phase		Taxi-Out	(Amps)	15.01	9.83	Ĭ7.69	Ž.27	Ĭ18.04	Ď.54	, 0.07	Ĭ1.21	Ď.80	Ĭ12.42) 36.70	
	2 2	•			\$	٨	\	\$	\$	Ş	\	\$	\$	\	\$	
					녜	녜	u l	냬	녜	녜	u	녜	u	u	₄	AMPS
	oad Su	Engine	Start	(Amps)	14.60	9.83	ğ.56	ž.27	Ĭ18.04	jo.54	0.07	Ĭ.21	08.0	ž.30) 36.70	u
	DCI				\$	Ŷ	\$	\	0	0	\$	\$	\$	\$,	139.90
	13				u.	녜	u	u	u l	냬	u	u I	u u	u	u I	
		Pass	Loading	(Amps)	j13.40	ğ.83	ğ.74	.3.36	Ĭ18.22	0.54	Ď.07	je.51	Ď.80	ja.20	, 36.81	nt I nad
					\	¢	\$	\$	\$	◊	\$	\$	¢	\$	\$	
098	File Run Goto Report		ATA Subsystems		21 Air Conditioning	22 Auto Flight	23 Communications (IFE, AVOD) <>	24 Electrical Power	25 Equipment/Furnishings	26 Fire Protection	27 Flight Control	28 Fuel	29 Hydraulic Power System	30 Ice/Rain Protection	31 Instruments	Maximum Elight Phase Direct Current Load

ASSET EPGDS Method

			100 mm (100 mm) (100														
Goto Report									1				ı				
			DC	Load	Sum	nary	Load Summary by Flight Phase	nt Pi	ase								1
		Pass		Engine	ne				\	Take-Off					Descent		
ATA Subsystems		Loading		Start	ょ		Taxi-Out		<u>~</u>	& Climb		Cruise	a		& Land		
		(Amps)		(Amps)	(sc		(Amps)		(A	(Amps)		(Amps)	(G		(Amps)		E
31 Instruments	\$	36.81	↓) 36.70	4	\$	ў 6. 70	↓	> 36.70	.70	⊹) 36.70		♦) 36.70	u	
32 Landing Gear	\$	3.69	ે હા	,3.69	u i	\$, 3.67	↓ 4	× j3.59	6	◊ ₄		4	♦	Ĭ4.07	ᄺ	- ,* x 1 ,
33 Lights	\$	15.84	↓	15.77	ᄺ	\$	Ĭ16.38	4	<> j19.47	.47	◊	17.07		♦	Ĭ16.05	ᄺ	
34 Navigation	\$	1.99	↓	ž. ř.	ull	\	ž.45	녜	\$ £2.45	2	↓	2.45	4	◊	ž.45	c#	, ,
35 Oxygen	◊	00.0	<u>٠</u>	, , , ,	녜	\$, 0.00	녜	, , , , , ,	0	્ર	, j0.00	4	ૄ	Ď.00	d i	
36 Pneumatics	\$.4.07	્ર યા	, 4.07	녜	\$, 4.07	u u	<> ¥.07	1	↓	, 4.07	4	♦	Ĭ4.07	и	
38 Water/Waste	\	Ž.07	ે હા	, i.53	녜	\	Ĭ.53	녜	<> Ž.07	7(♦	, Ĭ1.65		↓	Ž.07	ᄺ	
46 Electronic Library	\	00.0	↓	, , , ,	u	, ¢	Ď.00	ů.	<> 0.00	00	♦	0.00 ,	48	(4)) 0.00	ᄺ	,,
49 Airplane Auxiliary Power	\$	Ĭ1.20	♦) 1.20	u u	0	Ĭ1.20	ů.	<> ji.20	0,	↓	, 0.00	<u> </u>	♦) (0.00	u i	; .*
52 Doors	¢	Ĭ1.00	↓	, ji.50	J	\	Ĭ1.50	u	, <u>;;</u> ,	.50	٠ 4	ў.50		٥ د	Ĭ1.50	ᄺ	£)* ,
57 Folding Wing	\$	00.0	↓ 4	, <u>o</u> ,	4	\$	j0.00	ů.	<> ž0.00	00	≎ ₄	, , , , , ,	3.	⊹	ĭ0.00	u u	
Maximum Flight Phase Direct Current Load	Curre	nt Load	139.90		AMPS	//							ĺ				

ASSET EPGDS Method

Run Goto Report													ı	1		
			DC		Sum	nan,	Load Summary by Flight Phase	nt P	hase	dı.						
		Pass		Engine	ine				<u> </u>	Take-Off					Descent	
ATA Subsystems		Loading		Start	jį,		Taxi-Out		ω,	& Climb		Cruise	αì		& Land	
		(Amps)		(Amps)	(sd		(Amps)	i	_	(Amps)		(Amps)	~		(Amps)	
52 Doors	\$	Ĭ1.00	٠ ا	× Ĭ1.50	u l		Ĭ1.50	> ■	Ļ, <>	Ĭ1.50	♦	Ĭ1.50	u	\$	Ĭ1.50	u u
57 Folding Wing	\	, 00.0	\$ 4	, <u>ö</u>	u	\$) 00.0	4	. <mark>.Ω.</mark> . ∫	jo.00	٠ الع	<u>0</u> .00	u u	0	jo.00	4
73 Engine Fuel Control	◊	00.0 <u>č</u>	٥ 4	× 0.07	녜	\$	Ď.37	4	\ <u>.e.</u>	0.37	4	Ď.37	₄	\$	jo.37	4
74 Ignition	¢	00.0 <u>č</u>	≎ ₄	, , , , ,	ull	\	Ď.00	u∎	, <u>.⊆.</u>	Ď.00	⊹	00'0	ᄺ	\$	00.0	d i
75 Air	\$	00.0 <u>č</u>	4	, , , , ,	₄	\) 00.0	ď	ب <u>.</u> \$	00.0	⋄	00.0 <u>č</u>	ᄺ	·	00.0	₄
76 Engine Controls	◊	Ĭ.12	٠ اله	× J.12	c#	\$	ў.0.65	ů	<u>,.Q.,</u> ♦	0.65	٥ 4	. j0.65	ᄺ	Ŷ	0.65	d i
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ASSET EPGDS Method

	Standby DC Loads	Emergency/Standby Load B. AMPS	See Asset EPGDs Method
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ý0.00196522 j0.98 j0.00	Airflow Constant	Ĭ156.0	CFM/I	⟨∨A	
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, 100.0 , 0.0	IFE Power Factor	ğ.038	u ll		
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	IFE Load	0.0 1	₽ KVA		

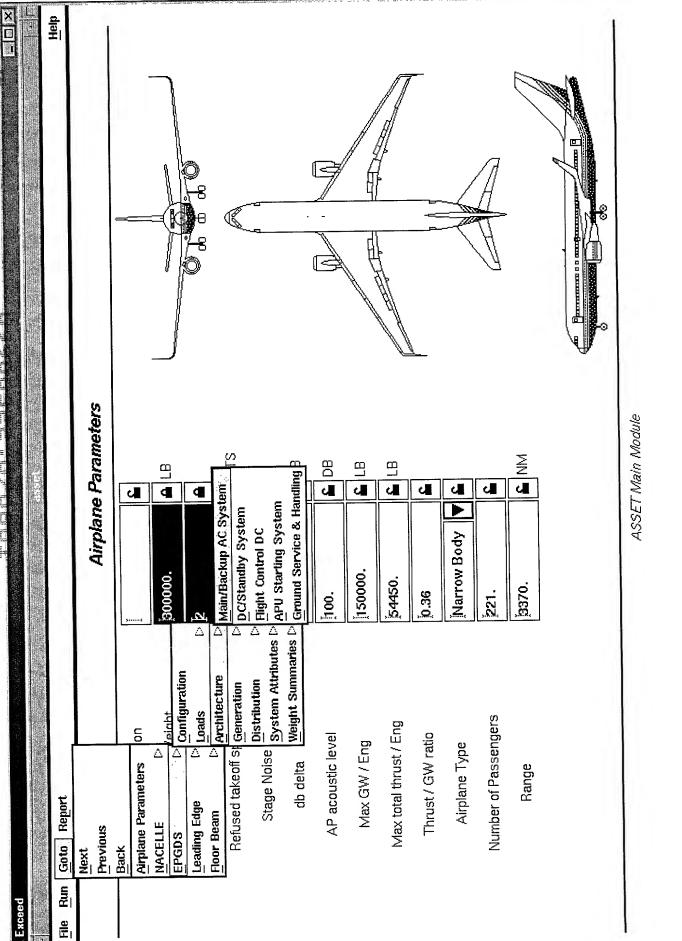
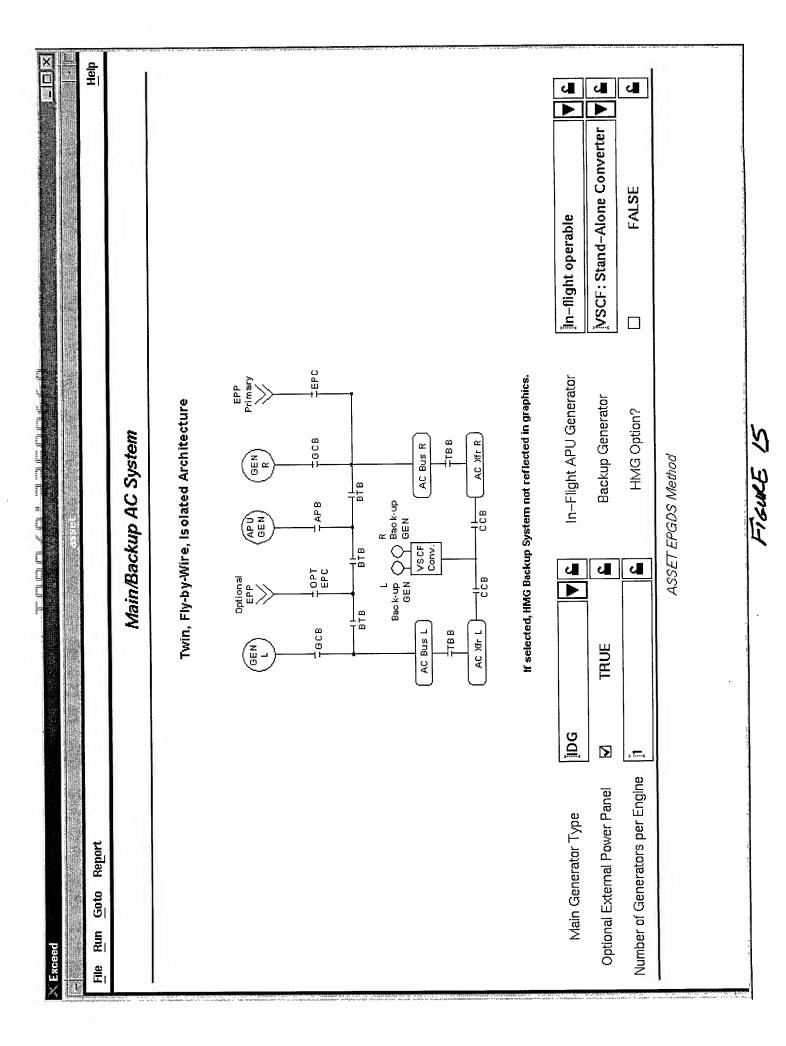


FIGURE 14



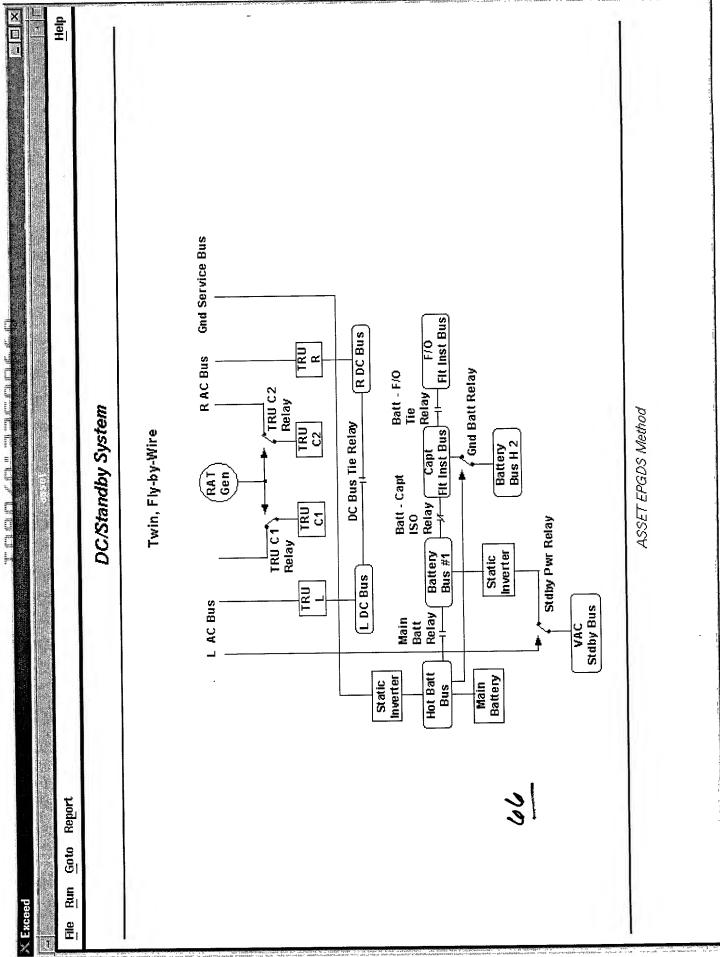


FIGURE 16

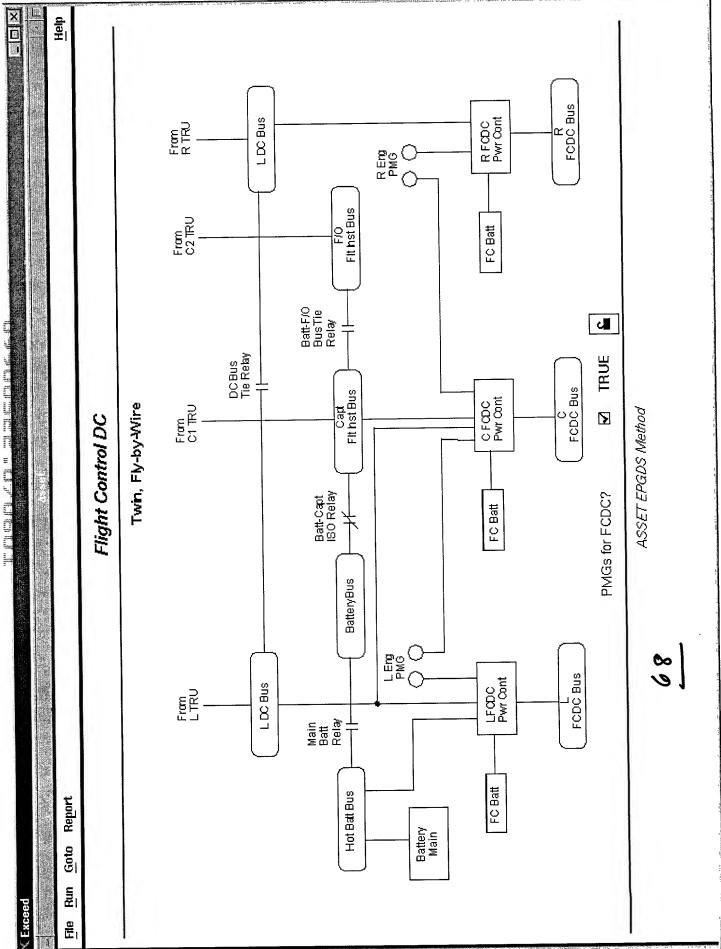


FIGURE 17

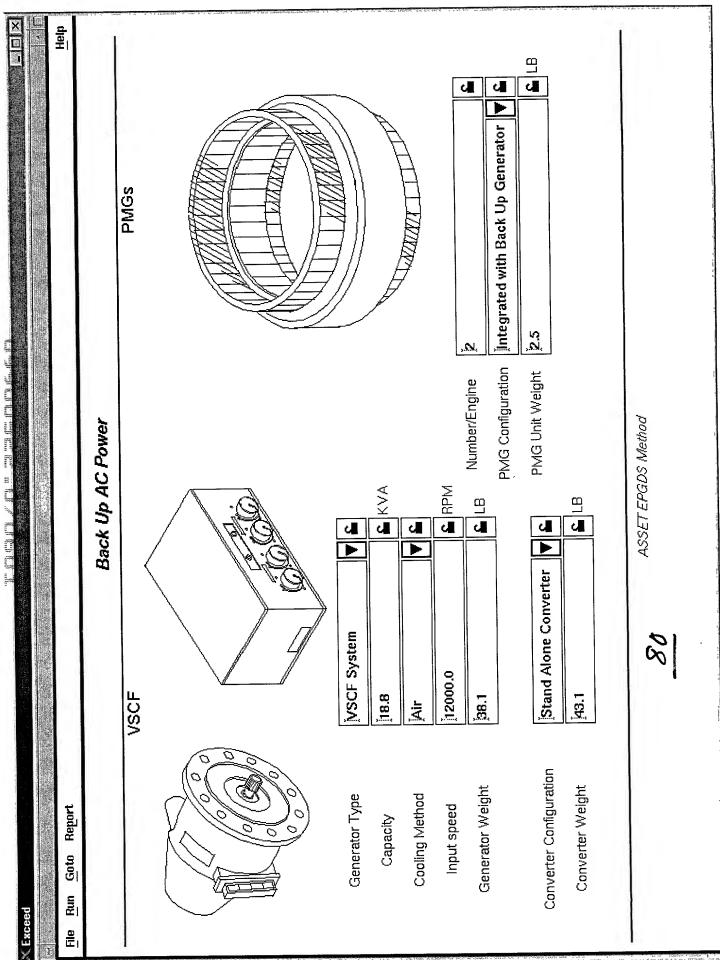
FIGURE 18

FIGARE 19

FISURE 20

Run Goto

FICURE 22



FIGARE 24

FLEURE 29

FIGURE 31

ASSET EPGDS Method

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Feeder 2:	12.5	87 4
Neutral 2:	Į.7	B C ■
Feeder 3:	Ĭ15.2	87 4
Neutral 3:	ž.3	En
Feeder 4:	Ĭ14.7	87 48
Neutral 4:	2.3	87 4
Feeder 5:	Ď.0	87 48
Neutral 5:	Ď.0	en le
TRU Feeder Weight		87 4
Total Wire Weight	ğ88.8	87 4
		2.3 14.7 0.0 0.0 6.4 68.8

FIGNE 34

FIGURE 35

Fuel Cost per Gallon, Base Year Lbs Fuel Burned / Flight Hour / Lb Additional Weight System Weight (per airplane) System Direct Horsepower Requirement (per airplane)

System Drag Horsepower Requirement (per airplane)

System Cooling Horsepower Requirement

Average Fuel Inflation Rate Beyond Present Year

System Pound of Fuel per Block Trip (per airplane)

Fuel Cost (NPV of Life Cycle Cost)
Fuel Cost per Airplane per Year

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ASSET EPGDS Method

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Maintenance Labor Burden Factor	2 .4	
Mean Time Between Unscheduled Removals	12000. L HRS	
Main Generator Mean Time Between Failures	26000.	
Mean Time Between Overhauls	HRS	
Shop Labor Man-Hours per Unconfirmed Failure (Test Time)	B.0 F HRS	
Shop Labor Man-Hours per Failure (Repair and Test)	48.0	
Shop Labor Hours per Overhaul	jo.0	
Average Shop Material Cost per Failure, base year	67500. DOLLARS	
Overhaul Materials Cost per Overhaul	DOLLARS	
Shop Maintenance Cost (NPV of Life Cycle Cost)	S819057. DOLLARS	
Shop Maintenance Cost per Airplane per Year	20597. 🚨 DOLLARS	
ASSET EPGDS Method		

	Help		₽ DOLLARS/HOUR		HRS			HRS^-1	DOLLARS	DOLLARS
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ASSET EPGDS Method

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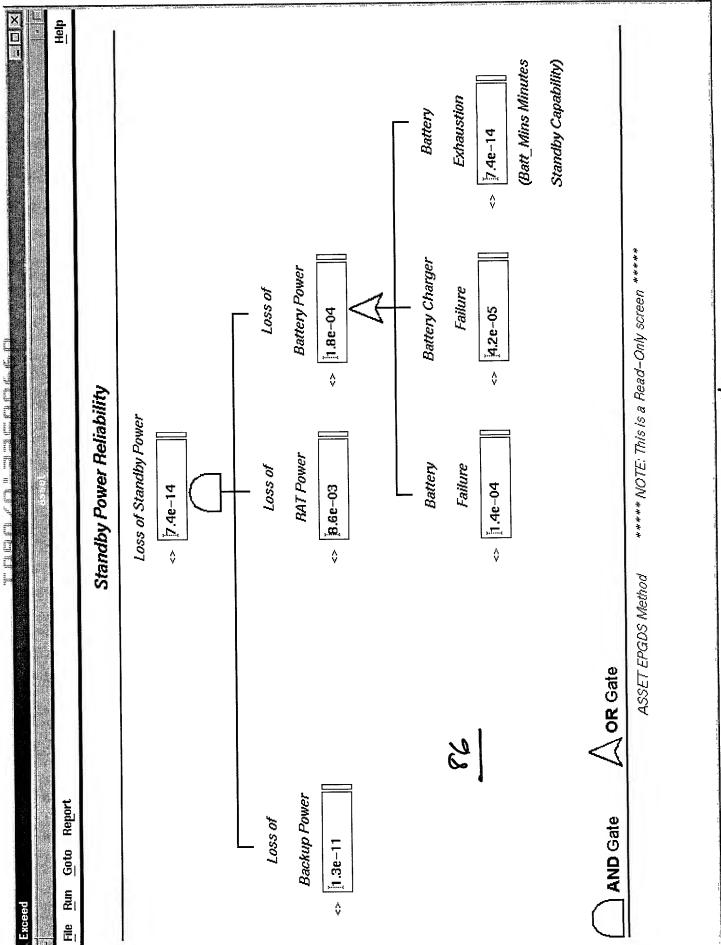
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Average Air Turnback Cost per Turnback	jac700. ♣ DOLLARS	
Average Diversion Cost per Diversion		organization (Sec.)
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Number of Air Turnbacks per 100 Departures	j0.0002	
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Schedule Interruptions Cost per Airplane per Year	1492. BOLLARS	
ASSET EPGDS Method		
FIGURE 4	43	

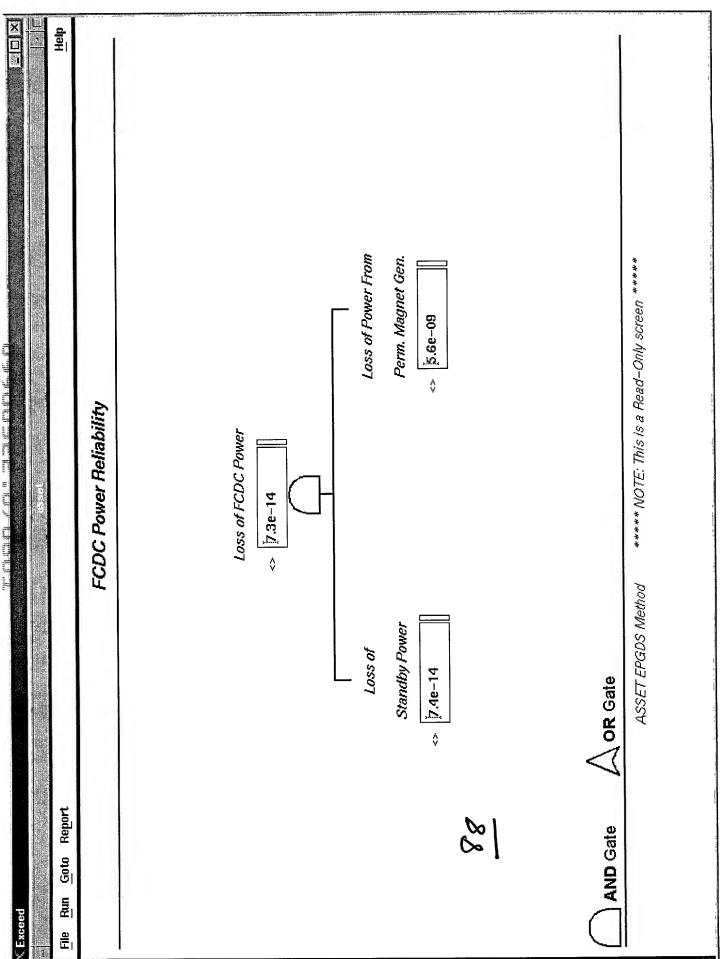
Report Line Maintenance Cost Shop Maintenance Cost Scheduled Maintenance Cost Schedule Interruptions Cost Spares Cost Fuel Cost Dependability Cost

FISURE YS

Reliability Inputs Average Flight Hours per Flight 3x40 Engine In-flight Shutdowns per 1000 hours 9010 ENSY-1 APU Generator MTBF \$26000. APU In-flight Shutdowns per 1000 hours \$0200 APU In-flight Shutdowns per 1000 hours \$0200 APU IN-Flight Shutdowns per 1000 hours VSCF Backup Generator MTBF \$26000. APU In-flight Shutdowns per 1000 hours APU IN-Flight Shutdowns per 1000 hours \$0000 APU IN-Flight Shutdowns per 1000 hours APU IN-Flight Shutdowns per 100	File Run Goto Report			, description of the control of the	
[3.40] Engine In-flight Shutdowns per 1000 hours [0.010] [26000.] APU In-flight Shutdowns per 1000 hours [0.010] [20000.] APU In-flight Shutdown Start Probability of RAT Unavailable when Required [0.010] [20000.] APU In-flight Shear Rate [0.010] [20000.] APU In-flight Shear Rate [0.010] [20000.] APU In-flight Shear Rate [0.010] [20000.] ASSET EPGDS Method				Reliability Inputs	
Engine In-flight Shutdowns per 1000 hours	Average Flight Hours per Flight	j3.40	녜	IFSD Rates (per 1000 flight hours)	
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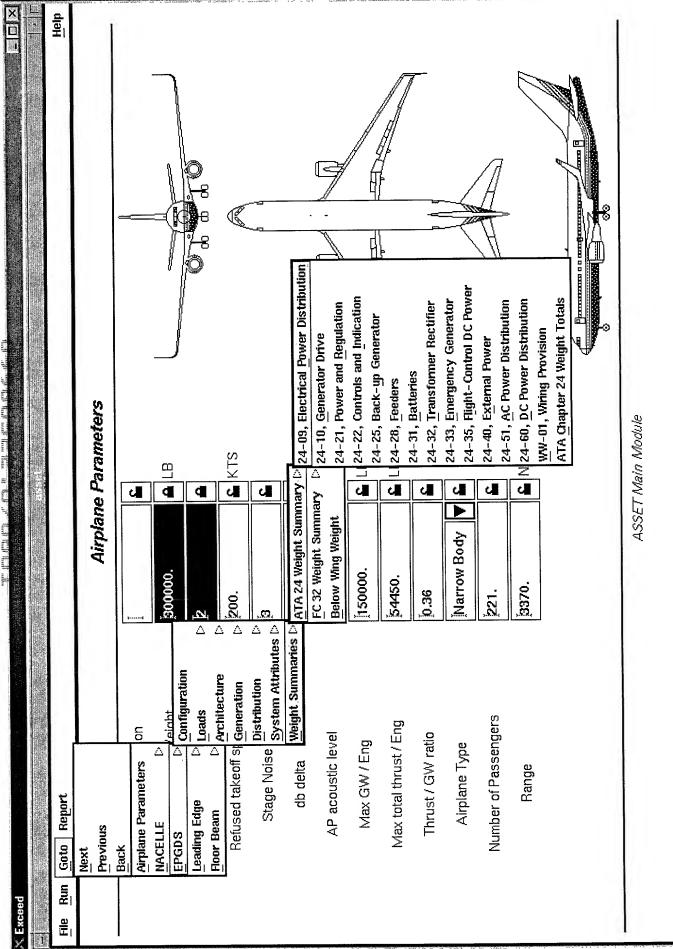


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Main Generator Mean Time Between Maintenance), 600.0	
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ASSET EPG	ASSET EPGDS Method	
	FIGURE 54	



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				ASSET EPGDS Method	hod											I

FIGURE 60

ASSET EPGDS Method

FIGURE 62

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24-33, Emergency Generator Component # Component Designation Quantity tinit Wit Subtrota M24016 \$\text{R}\$ \$\text{Static Inverter Unit}\$ \$\text{R}\$ \$\text{Static Inverter Unit}\$ \$\text{R}\$ \$\text{R}\$	File	Run Goto Report			TID KE												Hetp
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FIGURE 64

FIGURE 65

FILME 60

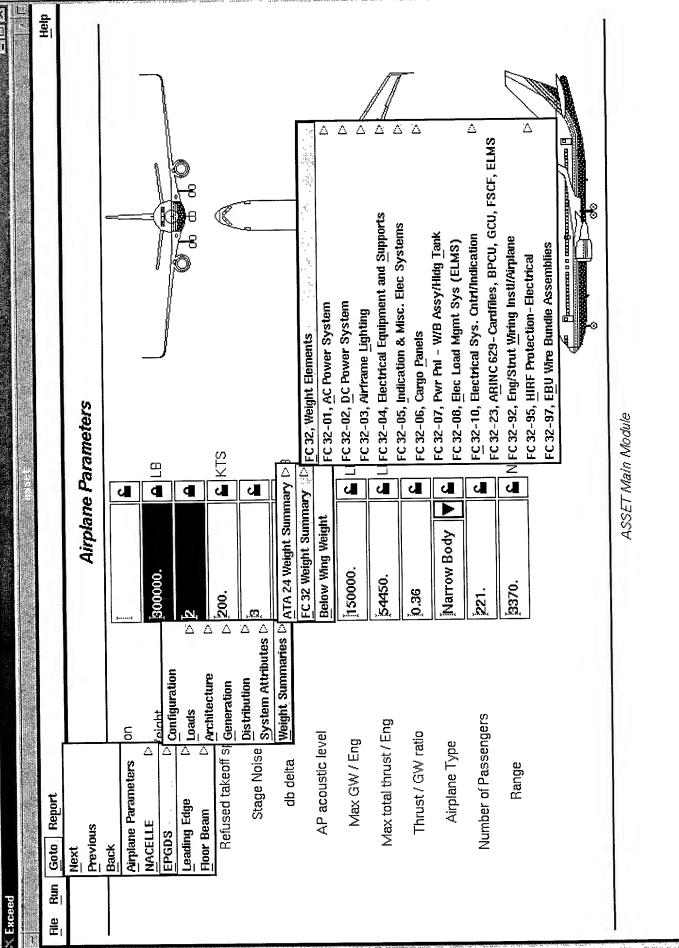
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24-51, AC Power Distribution Component # Component Designation Ac to DC Auto Transformer Consontity Unit WIT Subtotal Fix Ximr Ac Distribution Wire Conn	Component # Component Designation Cuantity Unit Wt Subtated	24-51, AC Power Distribution Component # Component Designation Quantity Unit WR ga Xfmr \$\text{AC Distribution Wire}\$ \$\$\text{\$\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\circle{\	File Run	Goto										1		
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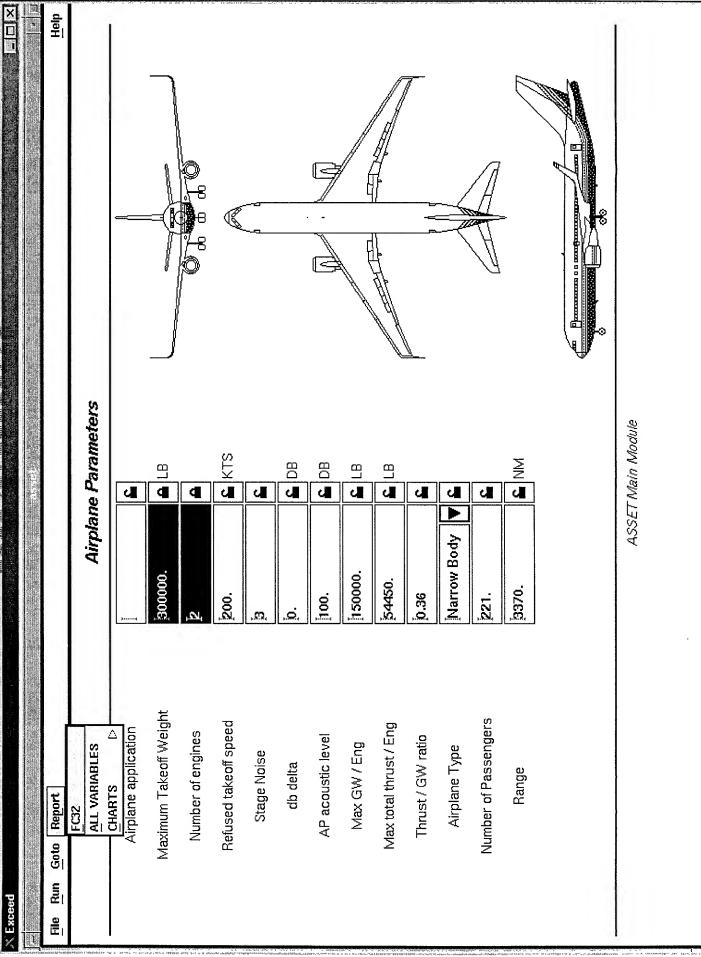
FIGURE 68

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ATA 24-22, Controls and Indication	Ĭ15.0	u III	
ATA 24-25, Back-up Generators	Ĭ172.4	U∎ U∎	8
ATA 24-28, Feeders	ž74.4		Œ
ATA 24-31, Batteries	ž38.0	u∎ IB	E
ATA 24-32, Transformer Rectifier	64.4	H CH	£
ATA 24-33, Emergency Generator	Ĭ100.7	B I	E
ATA 24-35, Flight-Control DC Power	ž11.8		æ
ATA 24-40, External Power	ž9.5	G G G	Ø
ATA 24-51, AC Power Distribution	Ĭ106.0	- HB	Ø
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WW-01, Wiring Provision	152.6	T I I	m I
Electrical Power Generation & Distribution System	2498.0	B □	



FIGHRE 71



FISURE 12

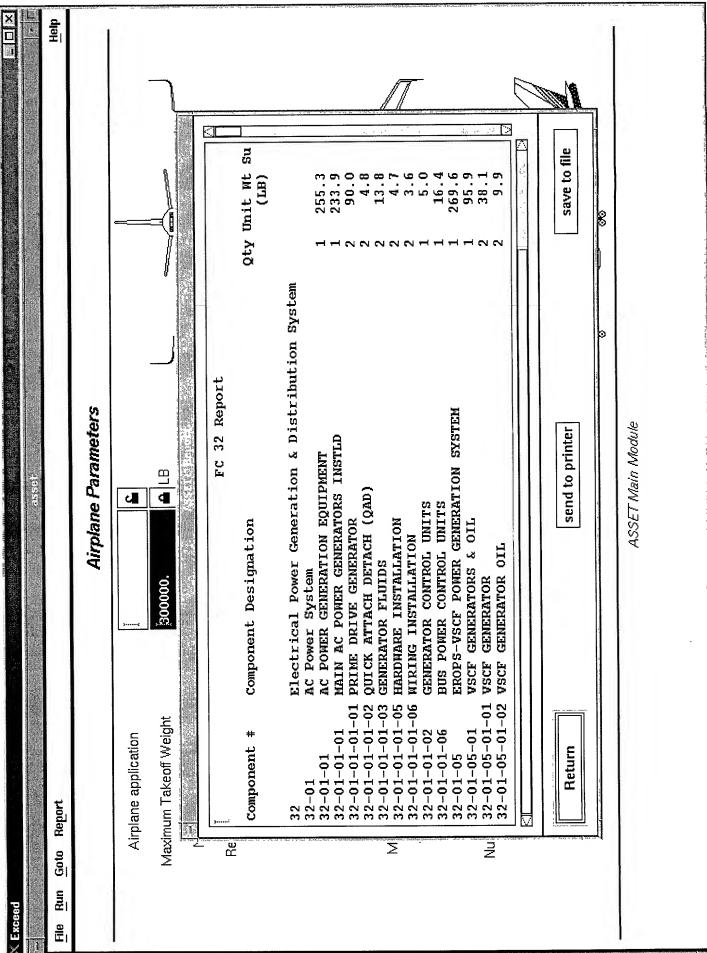


FIGURE 13

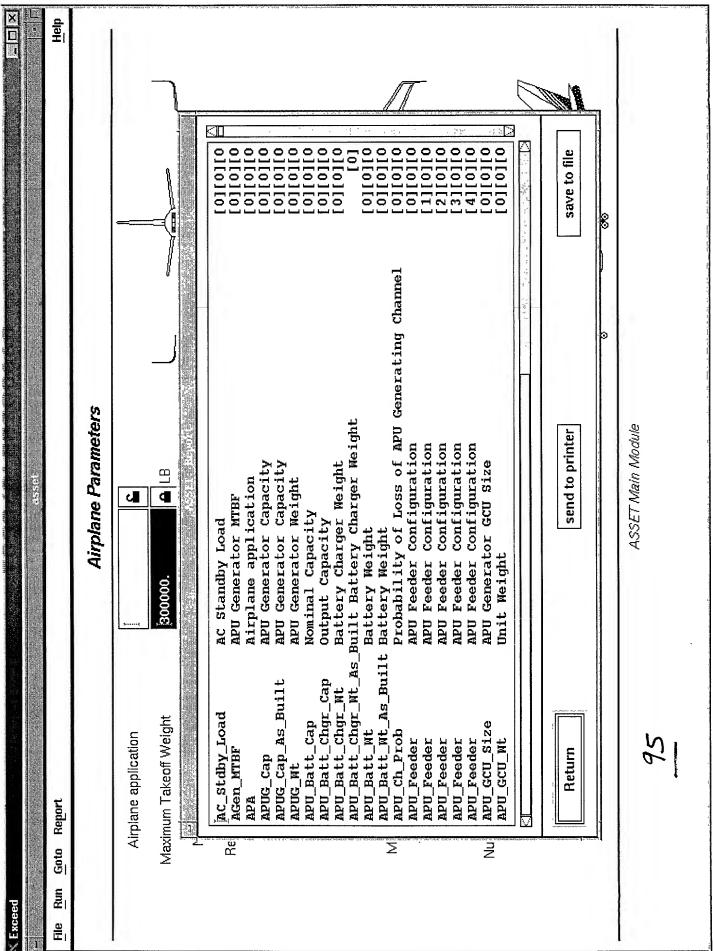


FIGURE 74

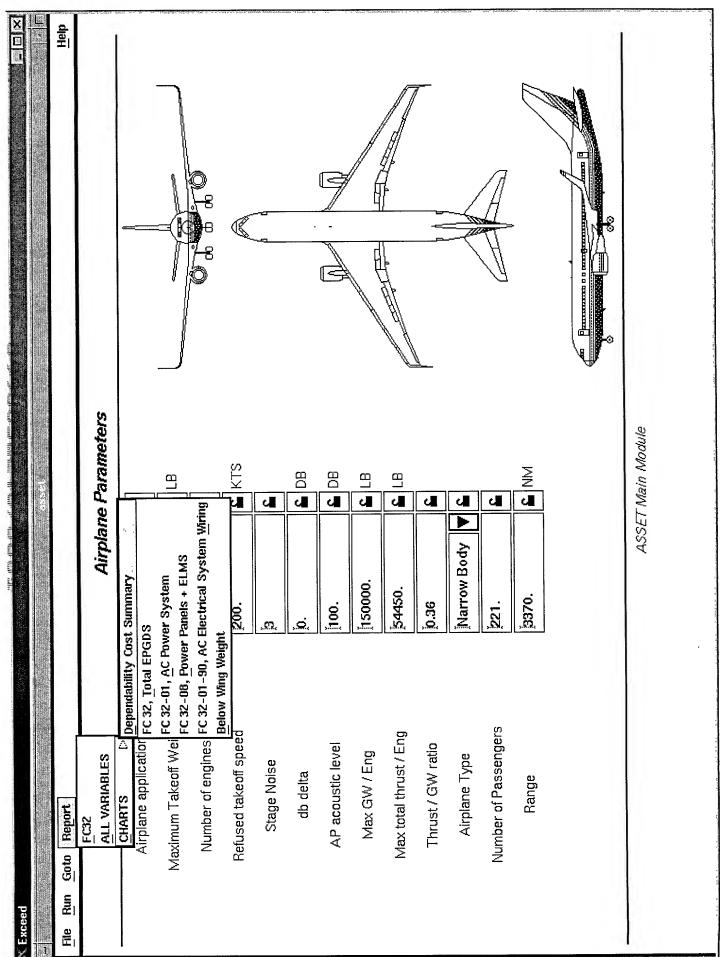
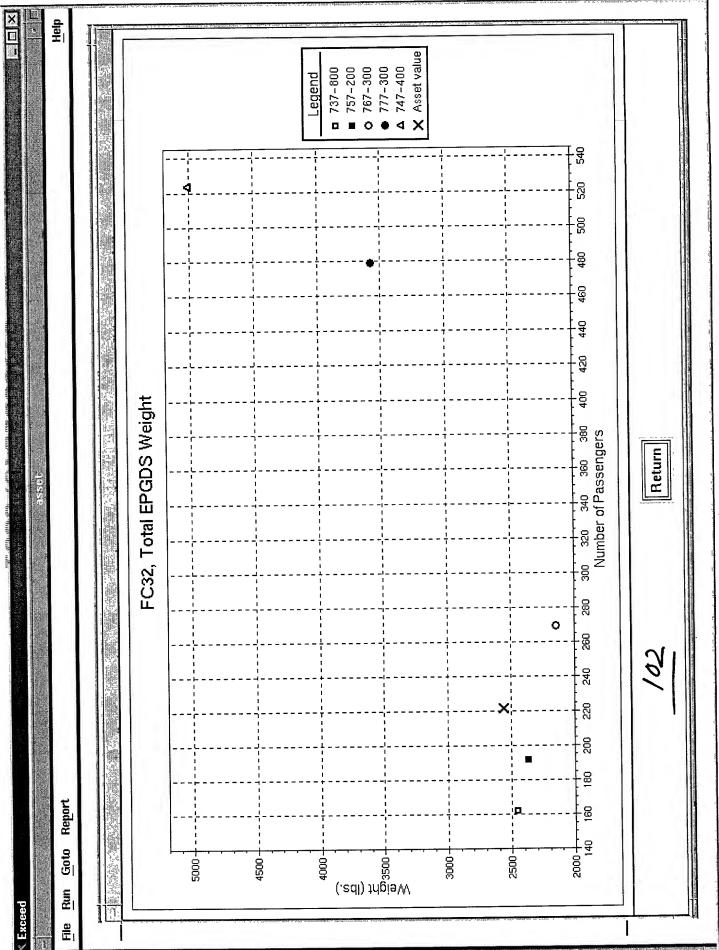
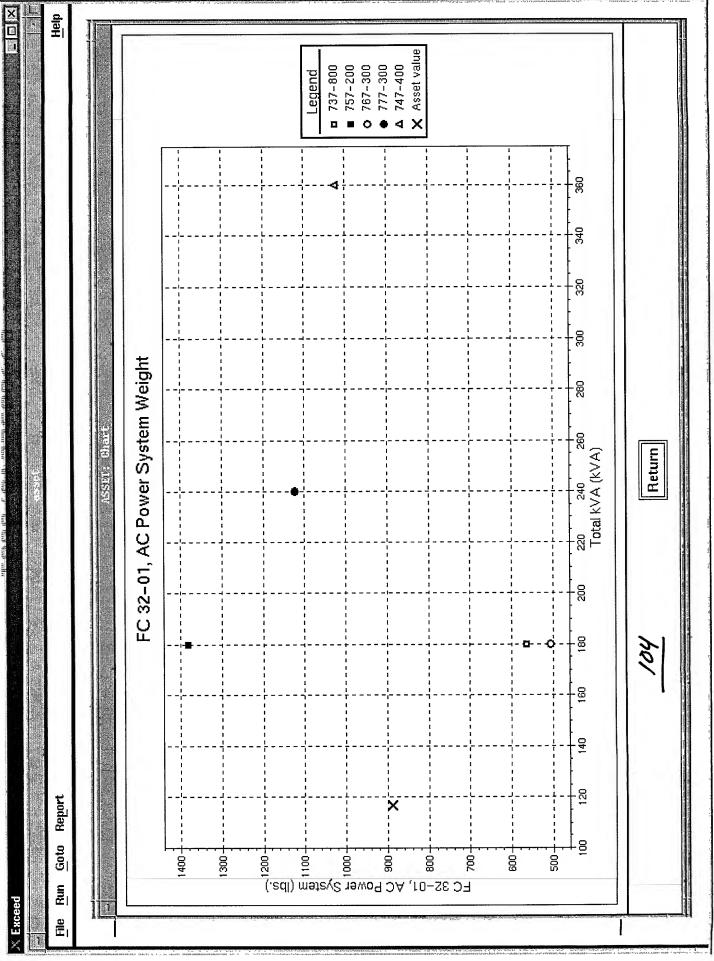


FIGURE 75

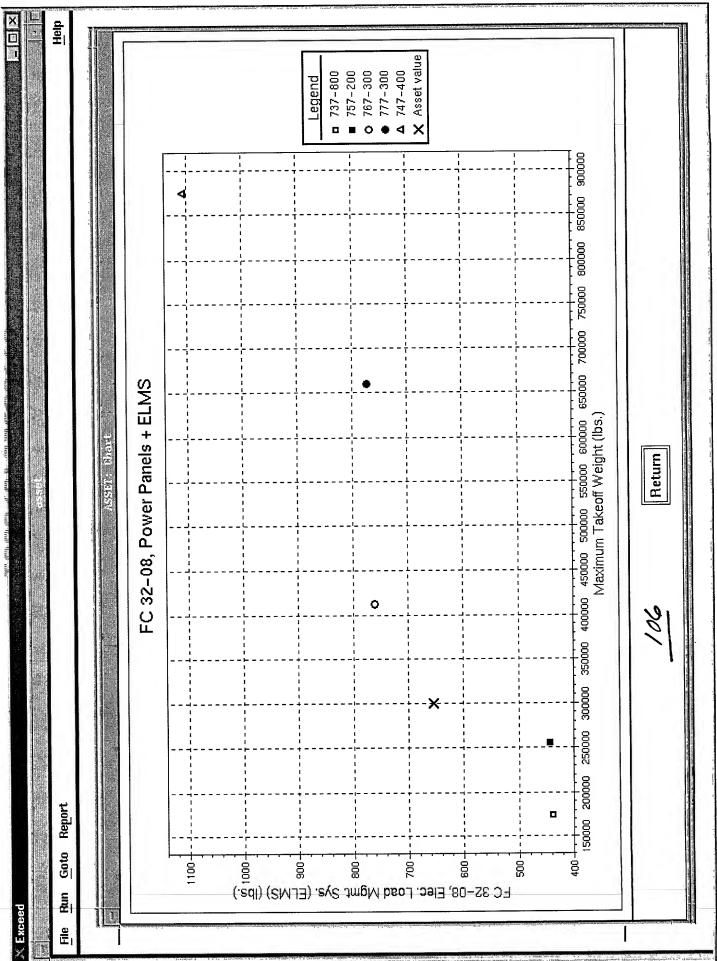
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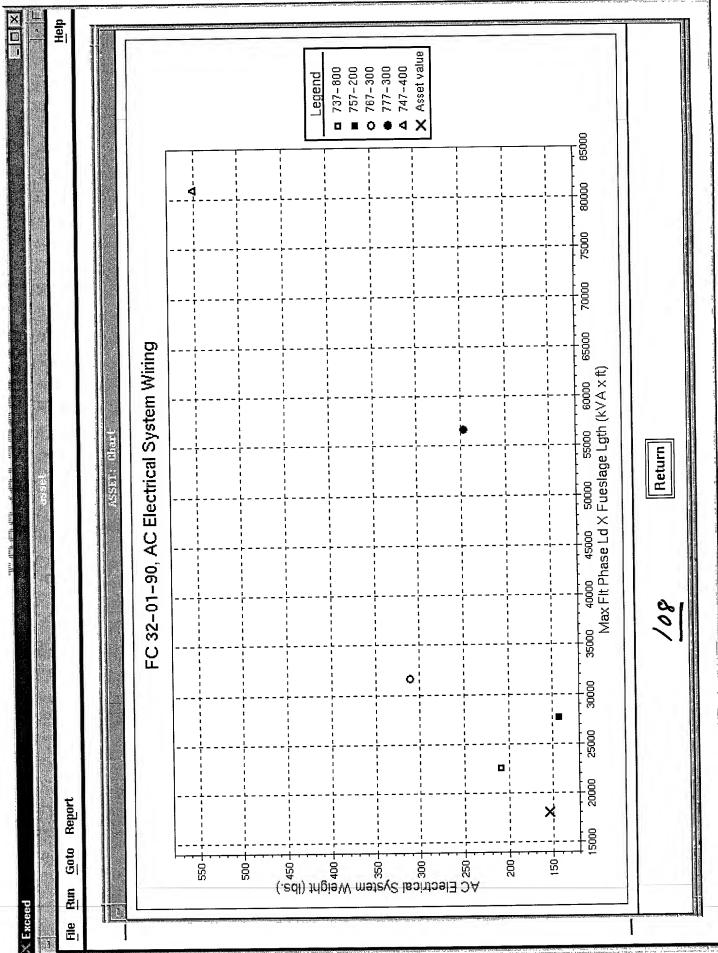
FISURE 77



FISURE 08



Freude 70



FISURE 80

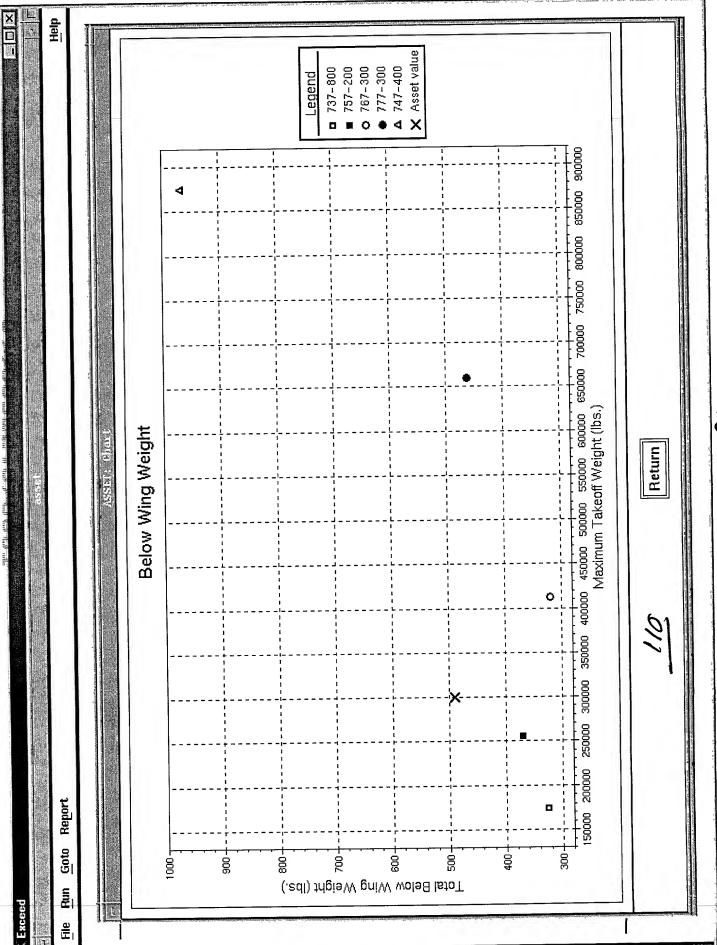


FIGURE 83